

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **2105** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

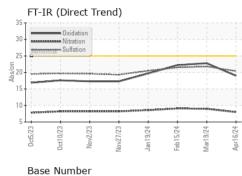
Fluid Condition

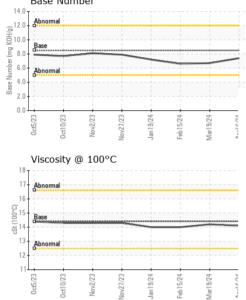
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0897923	WC0894008	WC0878771
Sample Date		Client Info		16 Apr 2024	19 Mar 2024	15 Feb 2024
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	3	5	4
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	<1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	0
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	<1	0	0
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	53	60	58
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	450	874	985	955
Calcium	ppm	ASTM D5185m	3000	1032	1096	1010
Phosphorus	ppm	ASTM D5185m	1150	942	1067	1022
Zinc	ppm	ASTM D5185m	1350	1127	1298	1241
Sulfur	ppm	ASTM D5185m	4250	3292	3674	2849
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	3	3
Sodium	ppm	ASTM D5185m	>158	2	2	2
Potassium	ppm	ASTM D5185m	>20	0	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.0	9.0	9.1
			00		01.0	01 5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	21.8	21.5
Sulfation FLUID DEGRADA		*ASIM D/415 method	>30 limit/base	20.4 current	21.8 history1	21.5 history2



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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
and and and a state of the stat	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Apr16/24	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual	20.L	NEG	NEG	NEG
				line it //e e e e			
	FLUID PROPER ⁻ Visc @ 100°C	cSt	method ASTM D445	limit/base	current 14.1	history1 14.2	history2 14.0
	GRAPHS	COL	A31101 D443	14.4	14.1	14.2	14.0
	Iron (ppm)				Lead (ppm)		
	²⁵⁰ T			10			
V.C.	200 - Severe			80	0 - Severe		
100 0 tan 1	E 150 - Abnormal			e 60	0		
	abnormal			und 40	0 - Abnormal		
	50-			2	0-		
	Oct5/23 Oct10/23 Nov2/23	Nov27/23 Jan 19/24	Feb15/24 Mar19/24	Apr16/24 -	0ct5/23 0ct10/23	Nov27/23	Feb15/24 Mar19/24
	No Oct D	Nov	Feb	Apr	-		Feb
	Aluminum (ppm)				Chromium (p	opm)	
	50 40 Severe			51	Severe		
				4			
V C	a Abnormal			E 30	Abnormal		
Acto							
	10-	1		10			
	23	/23 + /24 +	/24- /24-	/24	3 23 23	723	/24
	0ct5/23 0ct10/23 Nov2/23	Nov27/23 Jan 19/24	Feb15/24 Mar19/24	Apr16/24	0ct5/23 0ct10/23	Nov27/23	Feb15/24 - Mar19/24 -
	Copper (ppm)	_			Silicon (ppm)		-
	400 Severe		· · · · · · · · · · · · · · · · · · ·	80			
	300 -			60	0-		
				E_4			
	툡 200			d.41	Abnormal		
	100 -			21	0		
		m +					4 **
	0ct5/23 0ct10/23 Nov2/23	Nov27/23 Jan 19/24	Feb15/24 Mar19/24	Apr16/24 -	0ct5/23 0ct10/23	Vov27/23 Jan19/24	Feb 15/24 Mar19/24
	_	~ ,	Fel	Ap	0 -	<u> </u>	Ma Ma
	Viscosity @ 100°C	2		15.0	Base Numbe	r	
	Abnormal			(B/H	Abnormal	1 1	
	161			1.0.1 1.0.1 Base Number (mg KOH/g)	Base		
	G: 0114 Base Abnormal			ber (n	Abnormal		
	경 Abnormal				0 - Abnormal		
	10			⁸⁸ 0.1			
		3/24	5/24 -	8/24	0ct5/23	7/23 -	5/24 -
	0ct5/23 0ct10/23 Nov2/23	Nov27/23 Jan 19/24	Feb15/24 Mar19/24	Apr16/24	0ct10/23 0ct10/23	Nov27/23 Jan 19/24	Feb 15/24 Mar19/24
	_	~ ~	4 2			2 7	4 2
ratory	: WearCheck USA - 50	1 Madieo	n Ave Carv	NC 27513		60 5	URHAM - RAF
	: WC0897923	Rece		7 Apr 2024			YETTEVILLE S
ole No.							
ole No. Number	: 06151543	Teste	d :19) Apr 2024			DURHAM, N

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Certificate L2367

Contact/Location: Robert Iosiniecki - GODDUR

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